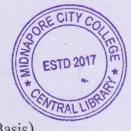
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PG (NEW) CBCS M.Sc. Semester-I Examination, 2018 NUTRITION & DIETETICS

PAPER: NUD-103

(Metabolism of Macro and Micro Nutrients and its Molecular Basis)

Full Marks: 40



Time: 2 Hours

Write the answer for each unit in separate sheet

Unit-5

(Metabolism of Macro Nutrients and its Molecular Basis)

Group-A

1.	Answer any two of the following questions:	2×2=4
a)	Distinguish between catabolism and anabolism.	
b)	Give two steps of invisibles pathway of cytolysis.	
c)	What do you mean by Oxidative deamination?	
d)	Write the role of acetyl-coA in fatty acid synthesis.	
	Group-B	
2.	Answer any two of the following questions:	2×4=8
a)b)c)	Write the role of transketolase in conversion of Ribose to Fructose Give a sketch of Urea cycle. Write role of carnitine on β-oxidation of SFA.	4 4
d)	Describe the regulation of blood sugar regulated by hormones.	4
	Group-C	
3.	Answer any one of the following questions:	1×8=8
a)	Describe the β -oxidation of 16-carbon fatty acid along with enzym Compute energetics of that fatty acid metabolism in β -oxidation parameters.	ith
b)	way. How do you correlate glycolysis and TCA cycle? Write the flow cl SAM formation.	6+2=8 nart of 5+3=8

Unit- 6 (Micronutrients in Nutrition)

CITY Answer any two of the following questions: $2 \times 2 = 4$ What is dental fluorosis? a) b) Mention two important functions of Zinc. How increased sodium intake causes hypertension? c) What is hemochromatosis? d) 2. Answer any two of the following questions: $2 \times 4 = 8$ Write important dietary sources of vitamin E. Mention the role of vitamin a) E as antioxidant. 1+3=4 Describe the role of iodine in synthesis of thyroxine. What are the b) consequences of iodine deficiency in adults? Describe the role of β -carotene in prevention of cancer and cataract. c) 2+2=4Mention the functions of selenium. Write the role of fluoride in d) maintaining dental health. 2+2=4Answer any one of the following questions: $1 \times 8 = 8$

3.

- Describe the mechanism of iron absorption. Mention the promoting and a) inhibiting factors of iron absorption. 4+(2+2)=8
- Write the role of calcium in bone formation. How vitamin D helps in b) calcium absorption? What is osteoporosis?